Appl. No. 09/662,533
Amdt. dated Sept. 20, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for discovering the topology of a network comprising the steps of:

initially resolving positions of end stations on the network~~,~~; and

subsequently resolving the topology of remaining devices on the network;

wherein said end stations positions resolving step comprises the steps of:

determining, for a port of a managed device on the network, a first address of any packet which has been received by said port;

determining, for said port, whether said packet contains a second address; and

if said packet does not contain the second address, specifying that the port is connected to an end station.

Claims 2 and 3 (canceled).

Claim 4 (Original): A computer program on a computer readable medium loadable into a digital computer or embodied

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in a carrier wave, said program including software for carrying out the method of claim 1.

Claim 5 (Original): A computer program on a computer readable medium loadable into a digital computer or embodied in a carrier wave, for discovering the topology of a network comprising:

a program step to query a port of a managed device for a first address of any packet which has been received;

a program step for querying the same port of the device for a second address of any packet which has been received;

if there is no second address, returning relevant data to a manager and determining if there is another port on the device;

if there is a second address, determining if there is another port on the device;

if there is another port on the device, repeating the preceding four steps for another port of the managed device;

if not, repeating the preceding five steps in respect of another managed device.

Claim 6 (previously presented): A method for discovering the topology of a network, the method comprising the steps of:

(a) querying a port of a managed device on the network for a first address of any packet which has been received by the managed device;

(b) querying said port of the device for a second address of any packet which has been received by the managed device;

(c) if said second address does not exist, returning appropriate data to a manager and determining if there is another port on the managed device;

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(d) if said second address exists, determining if there is said other port on the device;

(e) if said other port exists on the managed device, repeating steps (a)-(d) for said other port; and

(f) if said other port does not exist on the managed device, repeating steps (a)-(e) for another managed device on the network.

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